Assignment 1--Initialize a new Git repository in a directory of your choice. Add a simple text file to the repository and make the first commit.

cd directory

git init

nano text.txt

git add text.txt

git commit –m ‘first file’

Assignment 2----Branch Creation and Switching. Create a new branch named 'feature' and switch to it. Make changes in the 'feature' branch and commit them.

git checkout -b feature

nano new.txt

git add new.txt

git commit -m "changes in feature branch"

Assignment 3: Feature Branches and Hotfixes. Create a 'hotfix' branch to fix an issue in the main code. Merge the 'hotfix' branch into 'main' ensuring that the issue is resolved.

git checkout main

git checkout -b hotfix

git add .

git commit -m "Fixed issue in main code"

git checkout main

git merge hotfix